

VCO Lab 2

Robert Potter

CTI1301 – VCO – C202512 Section 01

Professor Tony Guzman

NOTE: Remember to Export your final work as a single PDF file before submitting for grade. Keep a copy of your PowerPoint file in case you need to make any updates. Remove this note before submitting.

Part 1a Summary Server 2025

node103 - Proxmox Virtual Envi x + Gemini

itlab.fsemergingtech.com/#v1:0:=qemu%2F139:4:.....

Virtual Lab Virtual Environment 8.3.3 Search Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

- Datacenter
 - 2512-CT11301-rjpotter
 - 139 (rjpotter-Server2025)
 - 323 (rjpotter-Ubuntu)
 - 9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 139 (rjpotter-Server2025) on node 'node101' No Tags Start Shutdown Migrate Console More

Summary

- Console
- Hardware
- Cloud-Init
- Options
- Task History
- Monitor
- Backup
- Replication
- Snapshots
- Firewall

Hour (average)


rjpotter-Server2025 (Uptime: 00:26:18)

Status: running
HA State: none
Node: node101

CPU usage: 9.62% of 4 CPU(s)
Memory usage: 51.62% (2.06 GiB of 4.00 GiB)
Bootdisk size: 24.00 GiB
IPs: fe80::1dd7:1cb3:3196:d591%5 10.1.101.180

Notes

CPU usage



Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 25 19:38:43		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 19:37:29	Nov 25 19:38:42	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:36:45	Nov 25 19:37:39	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:33:00	Nov 25 19:36:44	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:31:30	Nov 25 19:31:30	node101	rjpotter@FS-SSO	VM 139 - Reset	OK

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Part 1b

Hardware

Server 2025

node112 - Proxmox Virtual Env

itlab.fsemergingtech.com/?code=FV34vpVTgVKE6szAt2TpnJ5TEqKeHdDW_AKU7Pxxg0JAn&state=%7B%22csrf_token%3D...

Virtual Lab Virtual Environment 8.3.3

Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

- 2512-CT11301-rjpotter
 - 139 (rjpotter-Server2025)
 - 140 (rjpotter-Rocky)
 - 323 (rjpotter-Ubuntu)
 - 9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 139 (rjpotter-Server2025) on node 'node101' No Tags Start Shutdown Migrate Console More

Summary

Hardware

Memory 4.00 GiB

Processors 4 (1 sockets, 4 cores) [host]

BIOS OVMF (UEFI)

Display Default

Machine pc-q35-9.0

SCSI Controller VirtIO SCSI single

Hard Disk (sata0) vmstorage1:vm-139-disk-1,size=24G,ssd=1

Hard Disk (sata1) vmstorage1:vm-139-disk-3,size=2G,ssd=1

CD/DVD Drive (sata2) iso:iso/virtio-win-0.1.266.iso,media=cdrom,size=707456K

Network Device (net0) e1000=BC:24:11:D1:BB:89,bridge=vmbr0,firewall=1

EFI Disk vmstorage1:vm-139-disk-0,efitype=4m,pre-enrolled-keys=1,size=1M

TPM State vmstorage1:vm-139-disk-2,size=4M,version=v2.0

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 25 21:09:53	Nov 25 21:10:57	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 21:09:39	Nov 25 21:09:41	node101	rjpotter@FS-SSO	VM 139 - Start	OK
Nov 25 21:00:40	Nov 25 21:08:04	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:53:35	Nov 25 20:54:30	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:53:34	Nov 25 21:00:39	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK

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Part 1c

Options

Server 2025

node103 - Proxmox Virtual Envi

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Virtual Lab Virtual Environment 8.3.2

Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

2512-CT11301-rjpotter

139 (rjpotter-Server2025)

323 (rjpotter-Ubuntu)

9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 139 (rjpotter-Server2025) on node 'node101'

No Tags Start Shutdown Migrate Console More

Summary Console Hardware Cloud-Init Options Task History Monitor Backup Replication Snapshots Firewall

Edit Revert

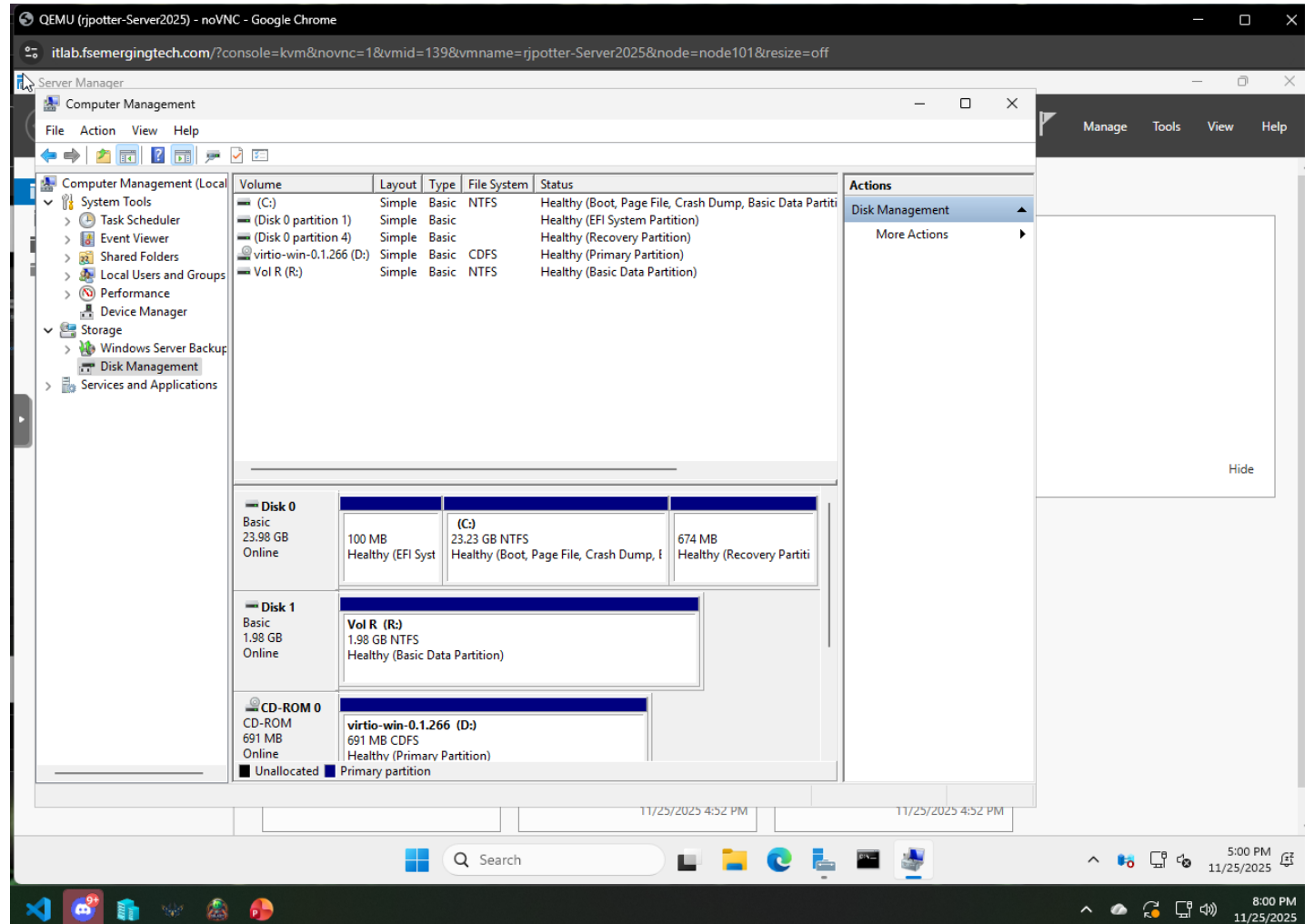
Name	rjpotter-Server2025
Start at boot	No
Start/Shutdown order	order=any
OS Type	Microsoft Windows 11/2022/2025
Boot Order	sata0, sata2, net0
Use tablet for pointer	Yes
Hotplug	Disk, Network, USB
ACPI support	Yes
KVM hardware virtualization	Yes
Freeze CPU at startup	No
Use local time for RTC	Default (Enabled for Windows)
RTC start date	now
SMBIOS settings (type1)	uuid=cd293e6-19a3-4d00-ad04-72e7d8e1a363
QEMU Guest Agent	Enabled
Protection	No
Spice Enhancements	none
VM State storage	Automatic
AMD SEV	Default (Disabled)

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 25 19:38:43		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 19:37:29	Nov 25 19:38:42	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:36:45	Nov 25 19:37:39	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:33:00	Nov 25 19:36:44	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 19:31:30	Nov 25 19:31:30	node101	rjpotter@FS-SSO	VM 139 - Reset	OK

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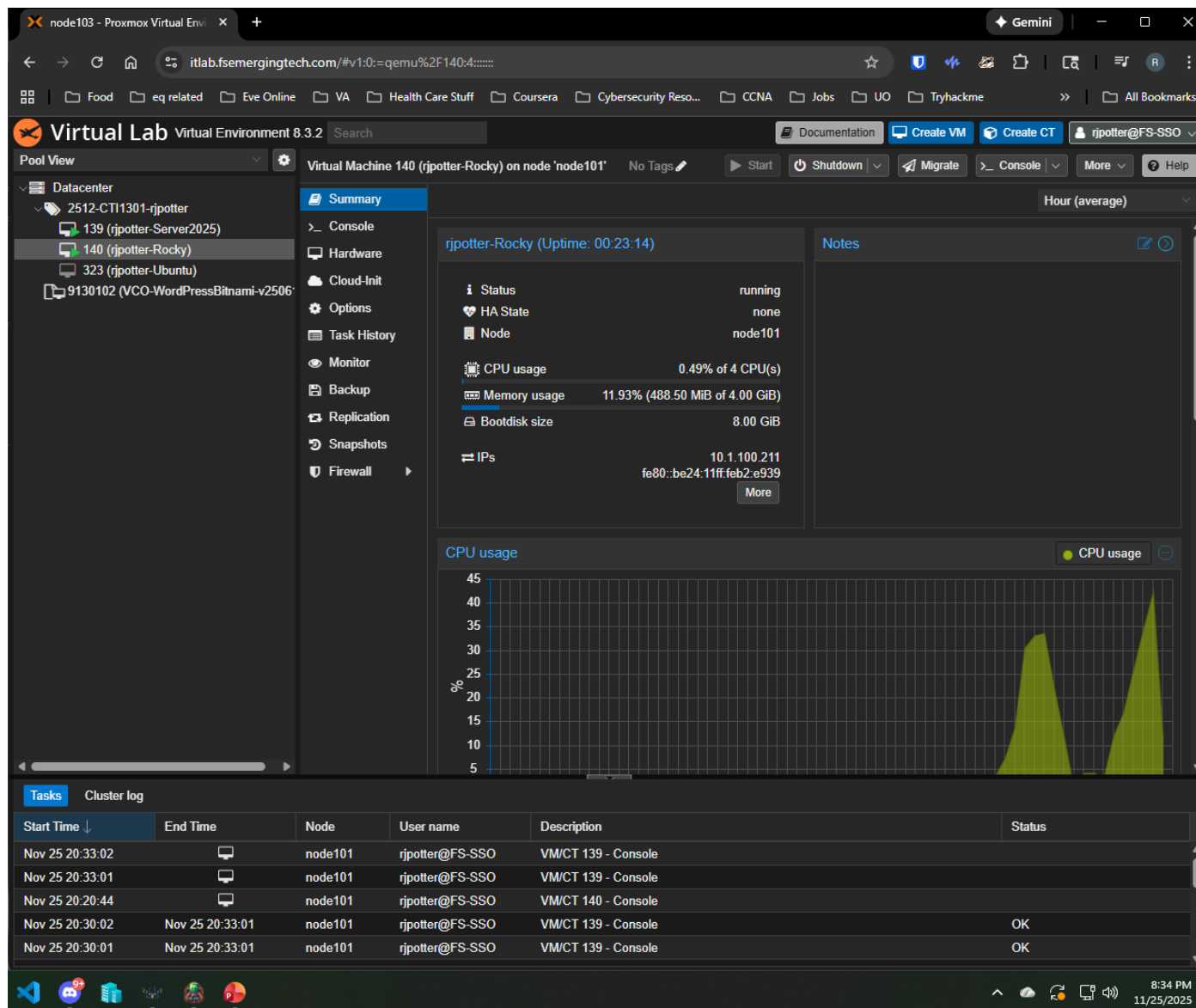
Part 1d Partitioned Hard Disk Server 2025



Part 2A

Summary

Rocky



Part 2b
Hardware Rocky
(the video is
different from
the instructions.
8gb vs 10gb)

node103 - Proxmox Virtual Env

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Virtual Lab Virtual Environment 8.3.2

Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

- Datacenter
 - 2512-CT11301-rjpotter
 - 139 (rjpotter-Server2025)
 - 140 (rjpotter-Rocky)
 - 323 (rjpotter-Ubuntu)
 - 9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 140 (rjpotter-Rocky) on node 'node101'

Summary Add Remove Edit Disk Action Revert

Console

Hardware

Cloud-Init

Options

Task History

Monitor

Backup

Replication

Snapshots

Firewall

Memory 4.00 GiB

Processors 4 (1 sockets, 4 cores) [host]

BIOS Default (SeaBIOS)

Display Default

Machine Default (i440fx)

SCSI Controller VirtIO SCSI single

Hard Disk (scsi0) vmstorage1:vm-140-disk-0,iothread=1,size=8G,ssd=1

Hard Disk (scsi1) vmstorage1:vm-140-disk-1,iothread=1,size=2G,ssd=1

CD/DVD Drive (scsi2) iso:iso/Rocky-9.2-x86_64-minimal.iso,media=cdrom,size=1573184K

Network Device (net0) virtio=BC:24:11:B2:E9:39,bridge=vbr0,firewall=1

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 25 20:33:02		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 20:33:01		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 20:20:44		node101	rjpotter@FS-SSO	VM/CT 140 - Console	
Nov 25 20:30:02	Nov 25 20:33:01	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:30:01	Nov 25 20:33:01	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK

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Part 2c

Options

Rocky

node103 - Proxmox Virtual Envi x + Gemini

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Virtual Lab Virtual Environment 8.3.3 Search Documentation Create VM Create CT rjpotter@FS-SSO

Pool View Virtual Machine 140 (rjpotter-Rocky) on node 'node101' No Tags Start Shutdown Migrate Console More Help

Summary Console Hardware Cloud-Init Options Task History Monitor Backup Replication Snapshots Firewall

Edit Revert

Name	rjpotter-Rocky
Start at boot	No
Start/Shutdown order	order=any
OS Type	Linux 6.x - 2.6 Kernel
Boot Order	scsi0, scsi2, net0
Use tablet for pointer	Yes
Hotplug	Disk, Network, USB
ACPI support	Yes
KVM hardware virtualization	Yes
Freeze CPU at startup	No
Use local time for RTC	Default (Enabled for Windows)
RTC start date	now
SMBIOS settings (type1)	uuid=d872305b-101a-4e26-abc2-b5271a91af27
QEMU Guest Agent	Enabled
Protection	No
Spice Enhancements	none
VM State storage	Automatic
AMD SEV	Default (Disabled)

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 25 20:39:03		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 20:39:03		node101	rjpotter@FS-SSO	VM/CT 139 - Console	
Nov 25 20:20:44		node101	rjpotter@FS-SSO	VM/CT 140 - Console	
Nov 25 20:38:00	Nov 25 20:39:02	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:38:00	Nov 25 20:39:02	node101	rjpotter@FS-SSO	VM/CT 139 - Console	OK

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Part 2D

Second Hard Disk

```
QEMU (rjpotter-Rocky) - noVNC - Google Chrome
itlab.fsemmergingtech.com/?console=kvm&novnc=1&vmid=140&vmname=rjpotter-Rocky&node=node101&resize=off

[root@Robert-Rocky ~]# mount -a
[ 1130.983895] XFS (sdb1): Mounting U5 Filesystem 95a2323f-2987-429f-8437-ca9fb85cf07a
[ 1131.020716] XFS (sdb1): Ending clean mount
mount: (hint) your fstab has been modified, but systemd still uses
the old version: use 'systemctl daemon-reload' to reload.
[root@Robert-Rocky ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0   4.0M   0% /dev
tmpfs           1.8G   0   1.8G   0% /dev/shm
tmpfs           732M  8.6M  723M   2% /run
/dev/mapper/r1-root 6.2G  1.6G  4.7G  26% /
/dev/sda1       1014M  320M  695M  32% /boot
tmpfs          366M   0  366M   0% /run/user/0
/dev/sdb1       2.0G   47M  1.9G   3% /robert-data
[root@Robert-Rocky ~]#
```

ProxMox
Dashboard,
Pool View, All
VMs powered
down

node106 - Proxmox Virtual Envi x + Gemini

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Virtual Lab Virtual Environment 8.3.3 Search Documentation Create VM Create CT rjpottter@FS-SSO

Pool View Resource Pool: 2512-CTI1301-rjpottter

2512-CTI1301-rjpottter

- 139 (rjpottter-Server2025)
- 140 (rjpottter-Rocky)
- 323 (rjpottter-Ubuntu)
- 9130102 (VCO-WordPressBitnami-v2506)

Search

Summary Members Permissions

Type	Description	Disk usage...	Memory us...	CPU usage	Uptime	Host CPU ...
qemu	139 (rjpottter-Server2025)				-	
qemu	140 (rjpottter-Rocky)				-	
qemu	323 (rjpottter-Ubuntu)				-	

Tasks Cluster log

Start Time	End Time	Node	User name	Description	Status
Nov 25 21:09:53	Nov 25 21:10:57	node101	rjpottter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 21:09:39	Nov 25 21:09:41	node101	rjpottter@FS-SSO	VM 139 - Start	OK
Nov 25 21:00:40	Nov 25 21:08:04	node101	rjpottter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:53:35	Nov 25 20:54:30	node101	rjpottter@FS-SSO	VM/CT 139 - Console	OK
Nov 25 20:53:34	Nov 25 21:00:39	node101	rjpottter@FS-SSO	VM/CT 139 - Console	OK

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